

Patent Claims

1. A method of carrying out continuous preparation processes on tightly meshing extruders rotating in the same sense such as twin-screw and multi-shaft screw-type extruders, **characterized in that** the extruder is operated at a screw speed of rotation of at least 800 rpm accompanied with a simultaneous increase of the so-called "torque density" (Md/a^3) which can be induced of at least 11 Nm/cm^3 and a volumetric ratio (Da/Di) of at least 1.5.
2. A method according to claim 1, **characterized in that** the mean product dwell time is less than 10 seconds.
3. A method according to claim 1, **characterized in that** the extruder is operated at a screw speed of rotation of up to 3000 rpm accompanied with a simultaneous increase of the so-called "torque density" md/a^3 which can be induced of up to 15 Nm/cm^3 and a volumetric ratio (Da/Di) equal to or greater than 1.55 and a mean product dwell time of less than 2 seconds.
4. Use of the method according to one or several of claims 1 to 3, **characterized in that** the method is used for the continuous mixing in the solid conveying range and/or for the grinding into powder of coarse-grained bulk goods.
5. Use of the method according to claim 4, **characterized in that** pigments are incorporated during masterbatching.

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